

Receipt
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Practitioner's Docket No. 03039PCT

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Nippon Valqua Industries, Ltd.

Serial No.: 10/549,394

Filed: September 14, 2005

For: Sealing material for ant groove

Examiner:

Art Unit: 3673

Confirmation No.: 1632

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Alexandria, VA 22313-1450

Respective Request For Corrected Filing Receipt

This is a respective request for a Corrected Filing Receipt.

There are two errors on the filing receipt.

The first error is that the number of independent claims is listed as two. However, there is only one independent claim in this case.

The second error is that the name "NIPPON" should be in all upper case.

As to the above, please find enclosed:

1. A marked up copy of the filing receipt (three pages);
2. A copy of the Article 34 Amendments (three pages); and
3. A copy of the Notice Of Recordation Of Assignment Document (two pages).

(18924.DOC)

I hereby certify that this correspondence and the documents referred to as enclosed therein are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA, 22313-1450, on February 27, 2006 by applicant's attorney Robert J. Jacobson.


Robert J. Jacobson, Reg. No. 32,419

Thank you very much.

Respectfully submitted,

Date: 2-27-2006

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/549,394	10/17/2005	3673	1260	03039PCT	5	5	2

23165
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CONFIRMATION NO. 1632

FILING RECEIPT



OC000000017953095

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Date Mailed: 02/03/2006

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Applicant(s)

Kazuaki Tsuji, Gojo-shi, JAPAN;
 Tsutomu Yoshida, Gojo-shi, JAPAN;

Assignment For Published Patent Application

NIPPOVALQUA INDUSTRIES, LTD.

NIPPON

Power of Attorney: The patent practitioners associated with Customer Number 23165.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/04323 03/26/2004

Foreign Applications

If Required, Foreign Filing License Granted: 01/31/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/549,394**

Projected Publication Date: 05/11/2006

Non-Publication Request: No

Early Publication Request: No

Title

Sealing material for ant groove

Preliminary Class

277

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CLAIMS

1. (Cancelled)

5 2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

10

5. (Cancelled)

6. (Added) A sealing material for an ant groove, which is fitted to the ant groove made in a surface of either one of members in a joint place between these 15 members and contacts with a surface of the other member, thereby sealing both the members,

with the sealing material comprising:

an elastically deformable material; and

20 a sectional shape having: a straight bottom edge which is disposed on a bottom face of said ant groove; an arched convex edge which contacts with the surface of said other member facing said ant groove; a first projecting edge which connects with one end of said bottom edge and projects outside; a concave inlet portion which is located between said first projecting edge and said arched convex edge; a second projecting edge which connects with the other end of said straight bottom edge and is 25 composed of straight lines that project outside; a straight sloping edge of which one end connects with the opposite end of said arched convex edge as to said first projecting edge and of which the other end connects with said second projecting edge; and at least one corner portion which is constituted in the range of from said

straight bottom edge via said second projecting edge to said sloping edge;

wherein: when the sealing material for the ant groove is fitted to said ant groove, said concave inlet portion is disposed on an opening edge of the ant groove, and then the entirety of the sealing material for the ant groove is made to gyrate toward the inside of the ant groove around said concave inlet portion as the base point, so that the sealing material for the ant groove gets pressed into the ant groove in a state where the periphery of said corner portion is elastically deformed.

5 7. (Added) A sealing material for an ant groove according to claim 6,
10 wherein the maximum value X of distances of from said corner portion to said concave inlet portion has a relationship of $X/B = 1.00-1.10$ with an opening width B of said ant groove.

15 8. (Added) A sealing material for an ant groove according to claim 6 or 7,
wherein:

said second projecting edge is formed by connecting a pair of straight edges together in a convexly crooked shape; and

20 said corner portion is constituted in the following three places: a place between said straight bottom edge and said second projecting edge; a crooked place of said second projecting edge; and a place between said second projecting edge and said sloping edge.

9. (Added) A sealing material for an ant groove according to any one of claims 6 to 8, which:

25 further comprises a vertical edge connecting said arched convex edge and said concave inlet portion together; and

makes a clearance between said vertical edge and an opening edge of said ant groove when fitted to said ant groove.

10. (Added) A sealing material for an ant groove according to claim 6;
which:

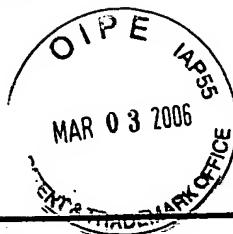
is fitted to said ant groove of a ring shape in a ring shape corresponding to said

5 ant groove of the ring shape;

has a location such that said first projecting edge and said concave inlet portion
are located at the outer peripheral side of said ring shape;

has a location such that said second projecting edge, said straight sloping edge,
and said corner portion are located at the inner peripheral side of said ring shape; and

10 has a peripheral length extended by 1-10 % in a state fitted to said ant groove
of the ring shape when compared with a free state.

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 12, 2005

PTAS

700217753A***700217753A***ROBERT J. JACOBSON
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DOC DATE: 09/26/2005

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TITLE: SEALING MATERIAL FOR ANT GROOVE

LENELL MACKALL, SUPERVISOR
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